

IN THE CLAIMS

Please cancel claims 19-21, 23-29, and 35-38, without prejudice or disclaimer.

Claims 1-31 (canceled).

32. (previously presented) The stroboscopic display device according to Claim 40, wherein the coaxial shafts of the rotary drive are associated with a common motor through a synchronizing transmission furnished with a control means to adjust the axial space between said drive shafts.

Claims 33-38 (canceled).

39. (previously presented) A stroboscopic display device comprising:

(a) at least one rotary drive associated with a plurality of parallel output rotary drive shafts, wherein pairs of adjacent parallel drive shafts are synchronized in phase and placed with the space A defined by the expression:

$$A < \max R_i + \max R_{i+1}$$

where $\max R_i + \max R_{i+1}$ is the sum of radii of circles described by the light sources maximally distanced from the axes of the corresponding drive shafts; and

wherein each drive shaft, except for the first and the last ones, has an additional long carrier together with the main carrier, but the first and last shafts have only short carriers shaped, dimensioned, and angularly positioned identically to the main carriers;

(b) a plurality of carriers of point light sources, wherein each carrier is cantilevered and shaped and situated identically in initial angular positions onto each respective rotary drive shaft of the rotary drive and formed as a rod which has:

a shape corresponding to an appropriate revolution body generatrix;

a thickness commensurable with the cross-section of a point light source;

and

a width, measured radially, which is sufficient for the carrier to illusorily disappear from the vision field of a spectator when gyrated;

(c) a plurality of point light sources arranged on the external surface of said carrier; the optical axis of each said light source is perpendicular to the revolution body generatrix which is formed by a selected shape of said carrier; and

(d) a control means including a microprocessor to control said point light sources, wherein the control means includes:

a sensor to signal said carrier position,
a synchronizer to synchronize the operation of light sources, and
program means to record and process the data to be displayed and
generate commands to cut in and out said light sources.

40. (previously presented) A stroboscopic display device comprising:
- (a) at least one rotary drive associated with an output rotary drive shaft and at least one additional rotary drive shaft spaced from the output rotary drive shaft and rotationally synchronized with the latter by a synchronizing means;
- wherein the additional drive shaft has at least one cantilevered carrier shaped correspondingly to an appropriate revolution body generatrix; and
- wherein the first rotary drive shaft and the additional rotary drive shaft are axially spaced coaxial drive shafts with at least one cantilevered carrier correspondingly shaped to an appropriate revolution body generatrix and placed in the axial space between said drive shafts;
- (b) at least one carrier of point light sources, the carrier is cantilevered onto the drive shaft of the rotary drive and formed as a rod which has:
- a shape corresponding to an appropriate revolution body generatrix,
- a thickness commensurable with the cross-section of a point light source,
- and
- a width, measured radially, which is sufficient for the carrier to illusorily disappear from the vision field of a spectator when gyrated;

(c) a plurality of point light sources arranged on the external surface of said carrier; the optical axis of each said light source is perpendicular to the revolution body generatrix which is formed by a selected shape of said carrier; and

(d) a control means including a microprocessor to control said point light sources, wherein the control means includes:

a sensor to signal said carrier position,

a synchronizer to synchronize the operation of light sources, and

program means to record and process the data to be displayed and generate commands to cut in and out said light sources.